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TITLE : METHOD FOR PRODUCING 2-(1-HYDROXYALKYL)CYCLOALKANONE

ABSTRACT : PROBLEM TO BE SOLVED: To provide a method for producing 2-(1-hydroxyalkyl)cycloalkanone in high yield and selectivity from a cycloalkanone and an n-alkylaldehyde in the presence of a small amount of water under mild conditions.

SOLUTION: This method for producing the cycloalkanone derivative by aldol condensation between a cycloalkanone and an n-alkylaldehyde in the presence of water and a basic catalyst; wherein the amount of the basic catalyst to be used is ≤ 0.04 mol per mol of the n-alkylaldehyde.

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